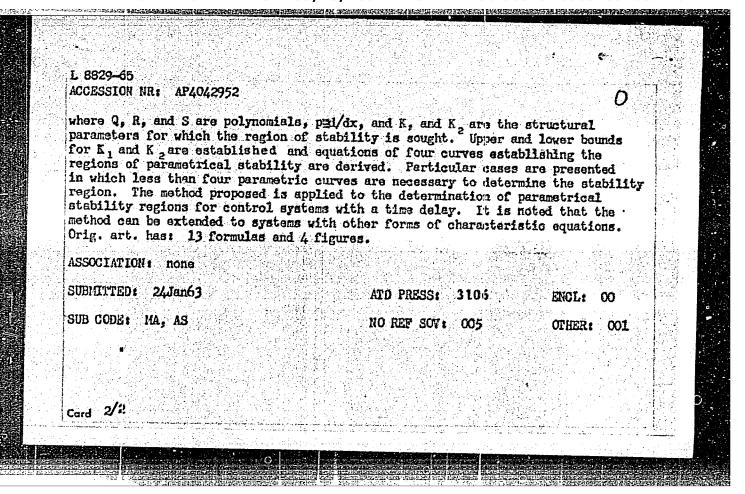


等。近在6月1日初期全国的股份有限的 原则的现在分词,	RELEASE: US/13/2001	CIA-RDF00-00513R000920920001-0
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AUTHOR1 Description on determin	ing the stability region fo	
SOURCE: Avtematy* TOPIC TAGS: suton stability region,	etic control system, struct structural parameter, Neyma structural parameter, Neyma	really stable system; received a stable ity region of structurally stable ity region of structural parameters is ing, random structural parameters is ing, random structural parameters is ing, random structural parameters is in the stable in
more sed on the	systems with the symark's measis of Yu. I. Heymark's measis of the method consists ince of the method consists ince of the stability region, would be common to all possession of the system is talk. [K,Q(p)+K,R(p)]	called the legion of parameters. The sible combinations of parameters.
Card 1/2	KQUITAKV	



L 22112-66

ACC NR: AP6012982

SOURCE CODE: UR/0091/65/000/009/0003/0006

AUTHOR: Vetrov, Yu. A. (Engineer); Lazarev. G. B. (Engineer)

47

ORG: none

TITIE: Ionic self-excitation device of the TGV-200 turbogenerator of the Zmiyevskaya hydroelectric power station

SOURCE: Energetik, no. 9, 1965, 3-6

TOPIC TAGS: ion source, hydroelectric power plant, power generating station, circuit design

ABSTRACT: Ionic excitation devices (basic systems for generator excitation) have been constructed for the 200 MW TGV-200 turbogenerators of the Zmiyevskaya hydroelectric power station (GRES). The article presents the circuit diagram of the ionic self-excitation device, its power supply circuit diagram, describes in considerable detail the operation of the device, and reports on the performance of the device during continuous commercial operation. The systems responded satisfactorily to various cases of short-circuiting. They are fast, need low control power, and are able, in most cases, to supply the needed excitation boosting during brief short circuits. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 10, 09 / SUBM DATE: none

Card 1/1 BK

UDC: 621.313.322-81

L 34876-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) BC SOURCE CODE: UR/0271/65/000/011/A016/A016

AUTHOR: Lazarev, G. B.

TITLE: Automatic-system design with limited plant information

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika, Abs. 11A113

REF SOURCE: Sb. Materialy radioelektron. i elektr. mashiny. L'vov, L'vovsk. un-t, 1964, 114-121

TOPIC TAGS: automatic control, automatic control system, automatic control theory

ABSTRACT: The design of automatic systems is considered when the source data is limited to approximate dynamic models obtained from experiments. Usually, several approximate models (as a rule, three) are obtained from experimental data for various process conditions; the controller adjustment is set in such a way that the transient process satisfy definite requirements of each plant model. An assumption is investigated that the system would have a similar behavior under intermediate condition. The conditions are determined under which the automatic system design based on such a plant information will be correct. The system stability is investigated. Bibliography of 11 titles.V. M. [Translation of abstract]

SUB CODE: 13, 09

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13

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EMT(d)/EMP(w)/EMP(v)/EMP(k)/EMP(h)/EMP(1)L 09255-67 IJP(c) SOURCE CODE: UR/0413/66/000/015/0103/0103 ACC NR: AP6029941

INVENTORS: Savinskiy, Yu. E.; Sklyarov, L. P.; Dreyzin, A. I.; Lazarev, G. F.

ORG: none,

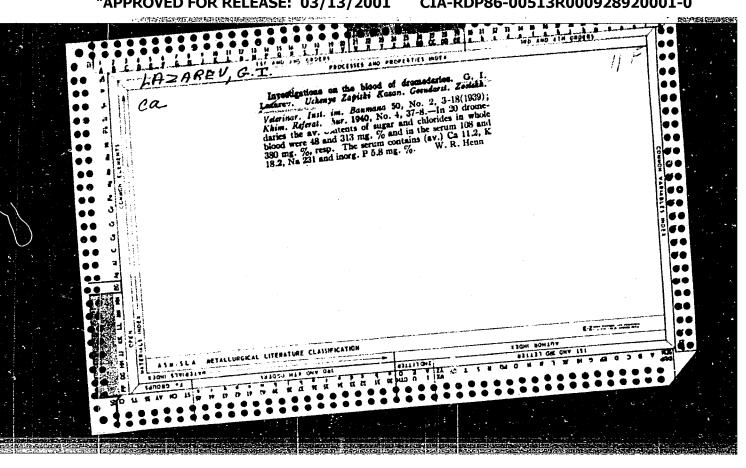
TITLE: A stand for dynamic and strength testing of automatic pitch controls of a helicopter. Class 42, No. 184497

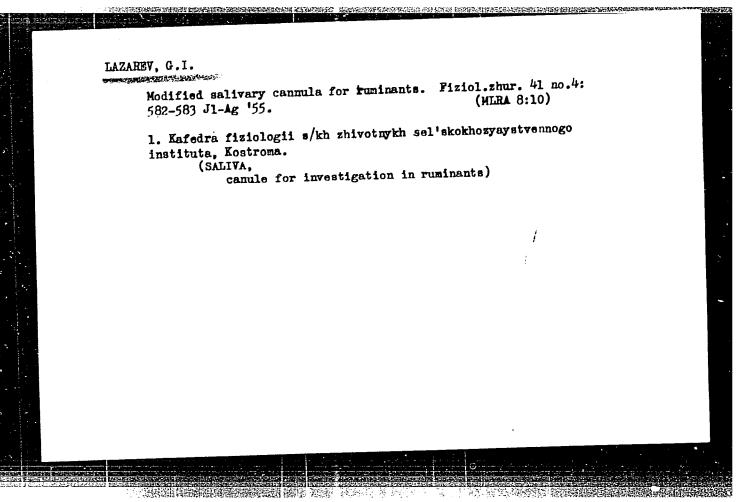
SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 103

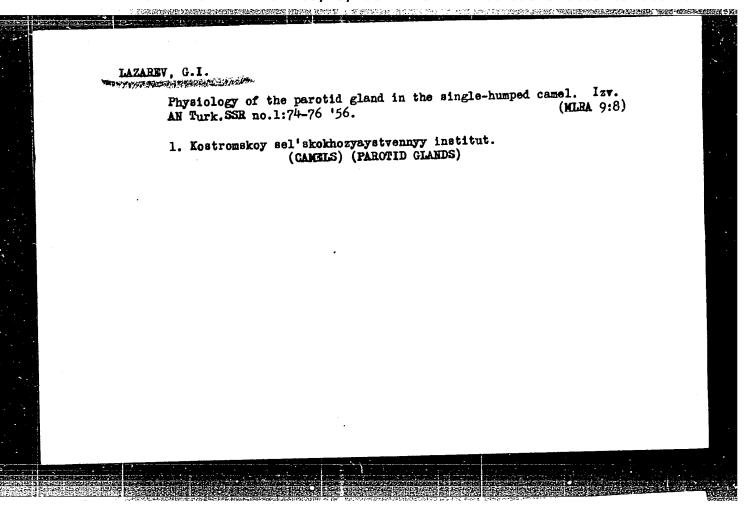
TOPIC TAGS: helicopter, dynamic stress, fatigue test, endurance test, vibration test, test equipment, test method, test stand

ABSTRACT: This Author Certificate presents a stand for dynamic and strength testing of automatic pitch controls of a helicopter. The stand commutes of a shaft supporting the driving mechanism of automatic controls and the loading mechanism with levers for the total and the cylindrical motion. The levers are connected by tie rods to the tested automatic pitch controls. To produce the vibration spectrum (in five harmonics) by external loading, and to impart a hinge moment to the helicopter blade, similar to those encountered in actual performance, to conduct the combined fatigue and strength tests, and to simplify the construction of the stand, a revolving experimental automatic pitch control and the traverse with torsion bars are mounted on the shaft. One end of the bars is connected to the stand's automatic pitch controls, and the other end is connected through the traverse to the tested automatic pitch control. Card 1/10 SUB CODE: 01, 13 /SUBM DATE: 150ct63

UDC: 620.178 629.139







USSR / Human and Animal Physiology. Carbohydrate Metabolism.

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 69851

Author : Lazarev, G. I.; Firsunkova, S. Ya., Postylyakova, R. I.;
Grivina, V. V.

Inst : Kostromsk Agricultural Institute
Title : Conditioned Reflex Influence on the Blood Sugar Level and on the Formed Elements of the Blood

Orig Pub : Tr. Kostromsk. s.-kh. in-ta, 1957, No 1, 117-121

Abstract : No abstract given

EELYAYEV, A.I.; FIRSANOVA, L.A.; VOL'FSON, G.Ye.; LAZAREV, G.I.

Effect of cathodic current density and the cryolite relation of electrolytes on the current efficiency in aluminum production. Izv. vys. ucheb. zav.; tsvet.met. 4 no.5:117-122 '61. (MIRA 14:10)

1. Krasnoyarskiy institut tsvetnykh metallov i Volkhovskiy alyuminiyevyy zavod.

(Aluminum—Electrometallurgy)

ACCESSION NR: AT4001237

s/3031/63/000/035/0101/0107

AUTHORS: Belyayev, A. I.; Firsanova, L. A.; Vol'fson, G. Ye.;

Lazarev, G. I.; Pal'chikov, A. I.

TITLE: Obtaining ultrapure aluminum by distillation through subfluoride in a pilot unit

SOURCE: Gosudarstvenny*y institut tsvetny*kh metallov. Sbornik nauchny*kh trudov. Moscow, no. 35, 1963, 101-107

TOPIC TAGS: ultrapure aluminum, ultrapure aluminum production, ultrahigh purity metal, ultrahigh purity metal production, ultrahigh purity aluminum, ultrahigh purity aluminum production

ABSTRACT: Apparatus for the production of ultrapure aluminum by distillation via the hypofluoride, developed at the Institut tsvetny*kh metallov im. M. I. Kalinina (Institute of Nonferrous Metals) by A. I. Belyayev and L. A. Firsanova (Trudy Mintsvetmetzoloto im. M. I. Kalinina, no. 33, 1960) is described briefly. In this method the purified aluminum is brought in contact with vapor-

Card 1/1/2

ACCESSION NR: AT4001237

ized aluminum fluoride at 1050° and residual pressure 10^{-1} — 10^{-2} mm Hg. The produced aluminum hypofluoride is decomposed into pure aluminum and aluminum fluoride which is returned to the cycle. During the course of the trials of the aluminum distillation technology, conditions were found under which large aluminum ingots of specified shape can be produced in the condenser, with simultaneous production of the return condensate (Al + AlF₃ with small amount of disperse aluminum). Tests with the pilot plant have shown the possibility of producing by this method superpure aluminum (99.999%) in amounts up to 1 kg a day. The aluminum obtained in the pilot plant was found suitable for production of semiconductor rectifiers, since the siluminum produced from it has less than 0.0001% Fe, 0.0006% Mg, and 0.0001% Cu. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Gosudarstvenny*y institut tsvetny*kh metallov (State Institute of Nonferrous Metals)

Card 2/3/2

MINKUS, B.A., kand.tekhn.nauk, dotsent; BARENBOYM, A.B., inzh.;

LAZAHEV, G.I., inzh.; SHTEYNBERG, I.B., inzh.

Use of radiators in boiling and condensing liquids in tubes.

Izv.vys.ucheb.zav.; energ. 7 no. 4:104-108 Ap '64. (MIRA 17:5)

1. Odesskiy tekhnologicheskiy institut pishchevoy 1 kholodil'noy promyshlennosti (for Minkus, Barenboym, Lazarev). 2. Penzenskiy dizel'nyy zavod (for Shteynberg).

+	L_13525-65 ENG(j)/ENP(e)/ENT(m)/EPE(c)/EPR/ENP(t)/ENP(h) Pr-4/Ps-4 JD/ ACCESSION NR: AP4011287 NW/NH 8/0136/64/000/001/0047/0054
· · · · · · · · · · · · · · · · · · ·	AUTHOR: Vigiorivich, V. E.; Krapukain, V. V.; Chernomordia, I. F.; Vol'fson, G. Ye.; Iszarev, G. I.; Pal'chikov, A. I.
	TIME: Conditions for obtaining high-purity aluminum by zone refining
	SOURCE: Tavetny*ye metally*, no. 1, 1964, 47-54
	TOPIC TAGS: aluminum, aluminum refining, zone refining, high purity aluminum, aluminum zone refining
	ARSTRACT: Experiments were conducted on four grades of aluminum: ABOOO (0.00%) Fe; 0.002% Si; 0.00% Cu total impurities < 0.01%); ABOOOO (0.001% Fe; 0.001% Si; 0.001% Cu total impurities < 0.004%); intermediate-purity aluminum (0.0016-0.002% Fe; 0.0013-0.001% Si; 0.0006-0.000% Cu); and aluminum purified by the subfluoride distillation method. Impurity content was determined by spectral analysis, and overall estimation of purity by measurement of the residual
-	electrical resistance of the aluminum at the temperature of liquid helium. It was found that high-purity aluminum can be obtained by zone refining, and that resistance heating is better than induction heating when working with graphite boats.

L 10521-65 ACCESSION NR: AP40)11287		0
ducing the effective	m degassing of the aluminum loness of zone refining. Aluminutransitica metals of the IVa, Voty" ends of the test samples, gures and 2 tables.	In and VIa proups was	obtained
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AYGISTOVA, S.Kh.; LAZAREV, G.L.; TIMERKAYEVA, Z.P.

Analysis of the operation of a high-frequency electric desalting unit on field No.1 of the Oil Field Administration of the Al'metyevsk Petroleum Trust. Nefteprom. delo no.9:19-23 '63. (MIRA 17:4)

1. Tatarskiy neftymoy nauchno-issledovatel'skiy institut i Neftepromy slovoye upravleniye "Al'met'yevneft'".

67799

18.7100

Lazarev, G.P. (Moscow)

sov/180-59-5-9/37

AUTHOR: TITLE:

Influence of Cyclic Heat Treatment on Changes of Dimensions of Specimens of Aluminium and Armco-Iron

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 5, pp 57-58 (USSR)

ABSTRACT: In this investigation 100 x 25 x 1-5 mm plates of 99.998% aluminium and 100 mm long, 1-10 mm diameter cylinders of armco iron were tested on an automatic cyclic heat treatment machine (Ref 1). Test conditions were: a) 400-20 °C for aluminium, 600-20 and 750-20 °C for iron, b) cycle duration for iron specimens 5 mm and over in diameter was 12 minutes, for all others it was 6 minutes. Results for 250 cycles are shown in Figs 1 and 2 for aluminium and iron, respectively. Fig 1 shows

percentage changes in dimension for aluminium as functions of thickness (curves 1, 2 and 3 for length,

width and thickness, respectively). Fig 2 shows percentage changes in length of armco-iron specimens as

Card 1/2

functions of diameter for test-temperature cycles of 600-20 °C (curve 1) and 750-20 °C (curve 2). Further

67799 sov/180-59-5-9/37

Influence of Cyclic Heat Treatment on Changes of Dimensions of

Specimens of Aluminium and Armco-Iron

tests on the influence of diameter were carried out on 100-mm long conical armco iron specimens with base diameter of 10 mm marked at 10 mm intervals along their length. After tests parts of the central zone showed no change in the inter-mark distances, in the thin zone distances increased and in the thick zone they decreased. The author concludes that the effect of cyclic heat treatment depends both on the type of crystal lattice and on the length/diameter (or thickness)

ratio. Card

There are 2 figures and 2 Soviet references. 2/2

ASSOCIATION: Institut tsvetnykh metallov, Moskva (Non-ferrous Metals Institute, Moscow)

April 27, 1959 SUBMITTED:

CIA-RDP86-00513R000928920001-0 "APPROVED FOR RELEASE: 03/13/2001

25(2) AUTHOR:

Lazarev, G. P.

sov/32-25-3-40/62

TITLE:

Machine to Test Materials With Respect to Thermal Fatigue (Mashina dlya ispytaniy materialov na termicheskuyu ustalost')

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, pp 357-358 (USSR)

ABSTRACT:

An automatically operating universal machine was constructed which is applicable to thermal treatment of samples of any form (Fig 1). The machine has a thermo-regulator of the EPD-12-type and permits thermal treatment in an inert atmosphere. Experiments showed that tests in the case of heating the surface of the sample up to a certain temperature show the most favorable effect, as short operation cycles are possible and conditions are found which approach reality most closely. The influence of a cyclic thermal treatment upon the variation of the dimensions was investigated in the case of aluminum (99.998%), zinc (99.99%) and Armco-iron samples. The experimental results show (Table, p 357) that in the case of the aluminum and zinc samples length and width were increased by the thermal treatment and the thickness reduced, whereas in the

Card 1/2

case of Armco-iron length and width of the sample decreased

SOV/32-25-3-40/62

Machine to Test Materials With Respect to Thermal Fatigue

and the thickness increased. A diagram of these changes is given dependent on the number of working cycles (Fig 2). In addition to this an investigation was carried out of the influence of the dimensions of the samples upon the effect caused by thermal treatment. The most marked change of dimensions was observed in thin aluminum samples. There are 2 figures

and 1 table.

ASSOCIATION: Moskovskiy institut tsvetnykh metallov i zolota im. M. I. Kali-

nina (Moscow Institute of Nonferrous Metals and Gold imeni

M. I. Kalinin)

Card 2/2

CIA-RDP86-00513R000928920001-0" APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920001-0 "APPROVED FOR RELEASE: 03/13/2001

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1045, 2308, 1413

AUTHOR:

Lazarev, G. P.

TITLE:

On the Mechanism of Deformation of Round Specimens Under Conditions of

Cyclic Heat Treatment

PERIODICAL: Izvestiya vysshikh uchebrykh zavedeniy, Tsvetnaya metallurgiya, 1960, 3,

No. 6, pp. 149-152

When specimens are subjected to cyclic heat treatment their deformation TEXT: depends on a series of factors such as the type of the crystalline lattice, the shape and dimension of the specimen, and conditions of heat treatment. Due to the combined effect of these factors, a determination of the mechanism of deformation is rather difficult. The author attempts to explain the behavior of round specimens subjected to cyclic heat treatment. He considers any round specimen whose axial surface is much longer than its radial surface as consisting of two or more concentric layers. If these layers are connected with each other to form a whole, like in compact specimens, the change of their dimensions will depend on the effect of the crystalline lattice of the specimen metal and its shape. If the layers are sufficiently thin and not connected with each other, the basic factor will be the

Card 1/7

CIA-RDP86-00513R000928920001-0" APPROVED FOR RELEASE: 03/13/2001

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S/149/60/000/006/016/018 A006/A001

On the Mechanism of Deformation of Round Specimens Under Conditions of Cyclic Heat Treatment

structure of the crystalline lattice of the specimen metal; the dimensions of the specimen will not exert a considerable effect on deformation. To confirm this concept, a series of tests were made. Aluminum rods, 100 mm long, were subjected to 300 6-minute cycles of heat treatment at 500 \$\Rightarrow\$ 20°C. Aluminum foil, 0.07 mm thick was rolled into 100 mm high specimens of 3.6 and 5.3 mm in diameter, which were tested during 250 cycles at 400 \$\Rightarrow\$ 20°C. It appeared that in spite of the different diameter of the specimens only the two external layers were deformed to almost an equal degree (Fig. 2). Comparing the results of tests made with compact and layered specimens it appears that the increase in length of layered specimens exceeds that of compact samples by more than 8 times. This explained by the fact that in case of a layered structure any mechanical connection of the layers is absent, excluding the effect on deformation of shape and dimension. In compact specimens this factor can be simultaneous or opposite to that of the crystalline lattice structure which may reduce the total effect of deformation. The distribution of deformations was studied on two-layer specimens made of Armco iron cores and aluminum jackets, and on compact aluminum specimens, subjected to 150 cycles of heat treatment at 550 \$\Rightarrow\$ 20°C. The tests show that for iron-core-specimens the

Card 2/7

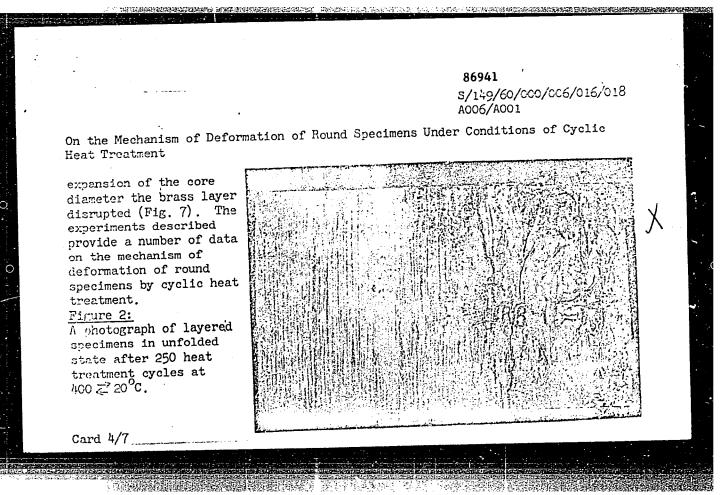
86941

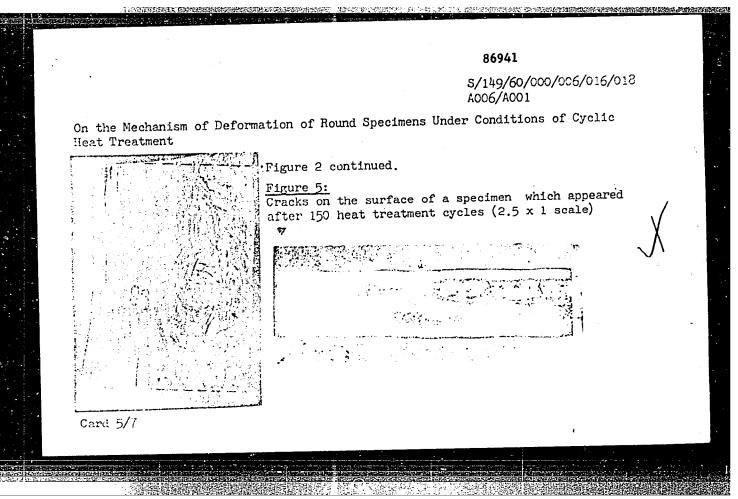
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On the Mechanism of Deformation of Round Specimens Under Conditions of Cyclic Heat Treatment

deformation of each individual section is different with respect to magnitude and not constant in its direction. Total deformation increases with a higher number of heat treatment cycles. Middle sections are most deformed, sometimes until cracking, the ends are least deformed. Tests with compact specimens show analogous results. The shape of iron cores of 2-layer specimens did not change, but the cores were displaced upwards and protruded from the jacket to 10 - 25 mm (Fig. 6). This is explained by the fact that the immersion of one end into a cooling medium causes the consecutive cooling of individual loggitudinal sections. The lowest end is freely reduced and the middle portion is reduced on account of the expanding heated upper portion; the top portion is freely reduced during cooling, so that the middle portion is the most deformed one. The consecutive reduction of the sections due to directed cooling and to the more rapid cooling of the external aluminum layer makes the enternal layer slide off the internal one. Studies of the macrostructure of specimens showed that the grain size changed considerably, increming after 150 cycles from 0.1 to 10.0 - 12.0 mm. The largest grains corresponded to the most deformed sections. The aluminum core of a brass specimen was reduced from 105 to 72 mm length after 650 cycles at 400 = 20°C. Due to the

Card 3/7





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On the Mechanism Heat Treatment	m of Deformation of Rou	and Specimens Unde	er Conditions of Cyclic	
Figure 6: Two-layer				
specimen after the test.				
Figure 7: View of a speci-	La maria de Maria de la companya de			1
men with an external layer				7521
(d = 5 mm) made of brass with an aluminum core				
(d = 2 mm) after 650 heat treatme	ent h			
cycles at 400 € 20°C.				
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On the Mechanism of Deformation of Round Specimens Under Conditions of Cyclic Heat Treatment

There are 7 figures and 2 Soviet references.

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Institute of

Non-Ferrous Metals) Kafedra metallovedeniya (Department of Metal

Science)

SUBMITTED: March 4, 1960

Card 7/7

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S/806/62/000/003/001/018

AUTHORS: Bochvar, A.A., Sviderskaya, Z.A., Lazarev, G.P.

Effect of the purity of the parent metal on the heat-resistance of an alloy.

Akademiya nauk SSSR. Institut metallurgii. Issledovaniye splavov TITLE: tsvetnykh metallov. no. 3. 1962, 5-11. SOURCE:

Earlier investigations of the senior author and others (Akad. n. SSSR, Otd. tekhn. nauk, no. 2, 1954, 42-45 and 46-51) have shown that the heat-resistance of an alloy can be either enhanced or lowered by identical impurities present in different proportion, depending on whether the solidus T is raised or lowered by the predominant impurity. Matters become yet more complicated when the impurities form readily fusible components in the alloy and reduce the solidus T sharply, whereupon some of the heat-resistance (HR) characteristics, such as the long-term hardness, on which the properties of thin boundary layers have little effect, may not be altered, whereas the fundamental HR characteristics (long-term stressrupture limit and fracture time at a given tensile stress) may be reduced to a mere fraction. The present paper describes tests intended to clarify the effect of impurities on the HR of the parent metal, in which two series of Al-Cu alloys were prepared: Series I based on 99.99% pure Al and Series II based on ordinary technical

Card 1/3

CIA-RDP86-00513R000928920001-0" **APPROVED FOR RELEASE: 03/13/2001**

Effect of the purity of the parent metal ...

S/806/62/000/003/001/018

Al (99.7% Al, 0.11% Fe, 0.13% Si). Two sets of HR tests were made: (1) Long-term hardness (LTH) was determined by 1-hr loading of a 10-mm diam steel ball under a 100-kg load at 300°C; (2) stress-rupture strength (SRS) was determined by the failure time under a 1.5-kg/mm² stress at 300°. The tests were preceded by 100-hr soaking at test T. In both tests the technical-Al alloy was found to be significantly stronger than the pure-Al alloy. The effects of an introduction of Gu were overshadowed by those of the Fe and Si, since the latter affect the structure of the alloy and the recrystallization processes therein. Metallographic observations are reported and depicted photographically. Specimens cast onto a cold plate exhibited a dendritic structure which became more sharply defined as the amount of impurities increased. Also, the purer Al (99.99% and 99.999%) develops two mutually intersecting networks of crystallite boundaries, whereas the 99.7% Al manifests only a single such network. Although the cooling of the cast metal proceeded very quickly, the recrystallization occurred extremely fast (of the order of 1 mm/sec) in the purest Al, but appeared to be effectively inhibited by even a 0.3% total of impurities. It was thus postulated that the changes in heat-resistance were somehow related to the recrystallization process. Tests with casting done on a plate heated to 300°C did not effect any noticeable development of the recrystallization process in the 99.7% Al, but accelerated it appreciably in the 99.999% Al. Casting of two Al-Cu alloys on a cold plate produced practically identical single-network structures, but

Card 2/3

Effect of the purity of the parent metal ...

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casting on a plate heated to 300°C resulted in a single network in the alloy based on 99.7% Al, but two intersecting networks in the alloy based on 99.99% Al. Conclusion: 0.3% Fe-Si impurities improve the heat-resistance of technical Al more than 4% Cu in high-purity Al. It could be reasoned that, since diffusion processes during recrystallization and creep develop especially intensively along the boundaries of the subdivisions of a structure, an increase in the number of grains and subgrains (total boundary surface) would increase the creep (decrease heat-resistance). Actually, however, the comminution of the dendritic structure accompanying an increase in impurities results in the opposite effect. Thus, evidently, the creep-stimulating effect of the branching of the dendrites in a more impure alloy is more than matched by some other, creep-inhibiting, change. It is hypothesized that this change consists in a concentration of the impurity atoms or alloying-substance atoms near the boundaries of the dendritic and subdendritic subdivisions which alters the composition structure, and properties of the near-boundary regions. Further reasonings and amplifications on this basic hypothesis are adduced. There are 4 figures, 2 tables, and 4 references (the 2 Russian-language Soviet references adduced in Card 1/3 of the Abstract; 1 German: Vogel, R., Zeitschr. f. anorg. und allgem. Chemie, v. 126, 1923, 1; and 1 French: Montariol, Publ. Scient. Techn. du Ministère de l'Air,

ASSOCIATION: None given.

Card 3/3

LAZAREV, G.S. (Voronezh)

Calculation of a pressure water conduit with optimum hydraulic considerations and a varying consumption rate. Izv.AN SSSR. Otd.tekh.nauk. Energ. i avtom.no.5:139-141 S-0 '60. (HIRA 13:11)

(Hydraulic engineering)

LAZAREV, G.S.

Method for hydraulic calculation of pressure pipelines with alternating pressure losses. Izv. vys. ucheb. zav.; neft' i gaz 3 no.10:105-112 '60. (MIRA 14:4)

Voronezhskiy politekhnicheskiy institut.
 (Pipelines- Hydrodynamics)

MALIKOV, F.P.; LAZAREV, G.S.; PAKHOMOV, V.V.

New units for cooling metal-cutting tools. Mashinostroitel'
no.9:33-34 S '63. (MIRA 16:10)

(Metal-cutting tools—Cooling)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000928920001-0"

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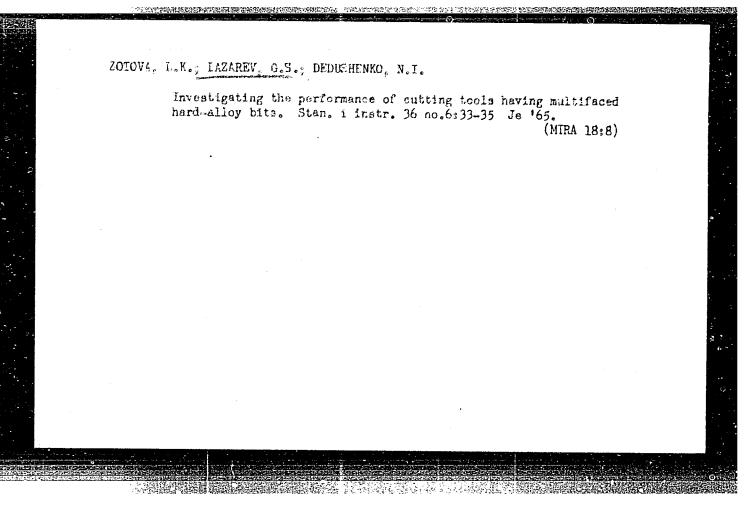
LAZAREV, G.S., general-mayor voysk svyazi; P'YANOV, M.F., podpolkovnik

Role of sergeants in the education and training of personnel.

Vest. protivovozd. obor. no.6:53-56 Je '61. (MIRA 14:8)

(Military education)

(Russia--Army--Noncommissioned officers)



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ACC NR: AP6027625

SOURCE CODE: UR/0145/66/000/006/0072/0077

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Lazarev, G. S. (Candidate of technical sciences; Docent)

ORG: none

TITLE: The effect of forced vibrations on the disintegration of a jet

SOURCE: IVUZ. Mashinostroyeniye, no. 6, 1966, 72-77

TOPIC TAGS: jet, fuel injection, injector, atomization, jet breakup, inter-

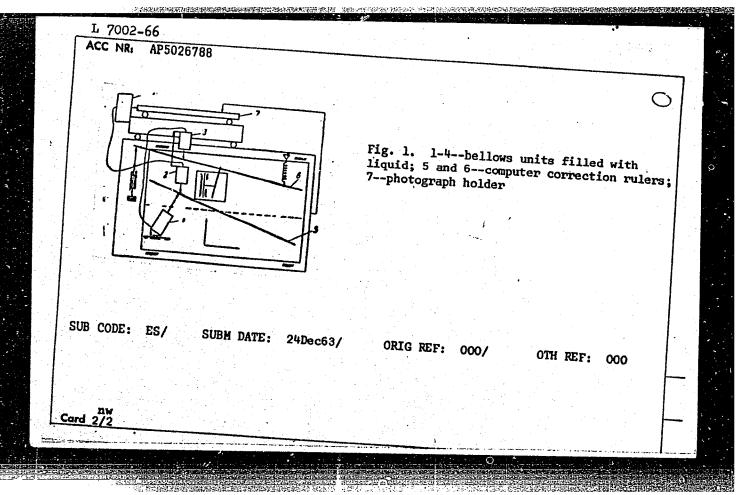
Hisintegration VIBRATION EFFECT

ABSTRACT: The effect of vibrations on the disintegration of a liquid jet was studied theoretically and experimentally. Equations were derived for the variations in a jet radius in the presence of vibrations. The experimental study was made in an assembly. containing a glass nozzle 0.5 to 1.2 mm in diameter which was placed in a plastic tube mounted in a holder connected to a mechanical vibrator (up to 10,000 cps). The disintegration of the horizontal water jets was recorded photographically. When the vibrations were in resonance with the natural frequency of the jet, the non-disintegrated section of the jet was shortened by a factor of 2.5. Forced vibrations with frequencies differing from the natural frequency or its multiples had little effect on jet disintegration. It is concluded that forced nozzle vibrations with resonance frequencies can be used in praxis to intensify atomization processes. Orig. art. has: [PV] 5 figures.

SUBM DATE: 070ct64/ ORIG REF: 006/ ATD PRESS: 5055 SUB CODE: UDC: 621.43

Card 1/1

L 7002-66 EWT(1)/T/EED(b)-3 IJP(c) GW ACC NR: AP5026788	
AUTHOR: Lazarev, G. V. 35 SOURCE CODE: UR/0286/65/000/017/0072/0073	
ORG: none TITLE: A stereophotogrammetric instrument. Class 42, No. 174378	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 72-73 TOPIC TAGS: cartography, geographic instrument, photogrammetry, surveying instrument	
ABSTRACT: This Author's Certificate introduces a stereophotogrammetric instrument graph holders, and a computer 5	
creased by using computer accuracy is improved and the speed of the instrument is in	
tographs. Measurement accuracy is	
creased by using computer components, e.g. multipliers, in the form of bellows units tograph holders.	



LAZAREV G, YE.

USSR/ Engineering - Materials

Card 1/1 Pub. 124 - 11/30

Authors * Troyanovskaya, G. I., And Lazarev, G. Ye.

Title • Heat resistant friction material "RETINAKS"

Periodical | Vest. AN SSSR 25/7, 71 - 73, Jul 1955

The development of a new heat resistant (1000°C) friction material called Abstract

"RETINAKS", trade name FK-24A, is announced. Results obtained in testing the new material, presently used for mass production of brake-shoes, are described. Composition of the new material is not described but mention is made that one of its components is phenol-formaldehyde resin. The advantages of the Retinaks material over the 6KKh brake-shoe material are listed. It is shown that the addition of brass or soft steel filings to the Retinaks

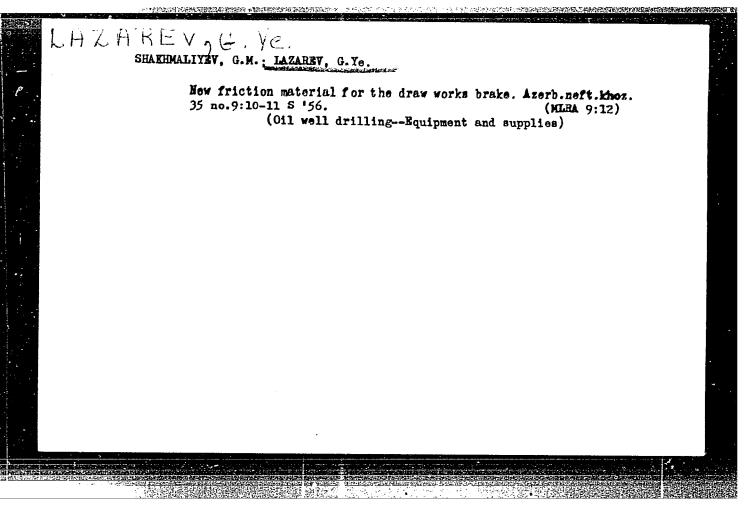
composition increases its frictional and mechanical properties at forced

brake conditions.

Institution:

Submitted

Lazarev, G. Ye. USSR/ Engineering - Conferences Card 1/1 Pub. 124 - 28/39 Kragel'skiy, I. V., Dr. of Tech. Sc., and Lazarev, G. Ye. Authors Methods of testing friction materials Title-Vest. AN SSSR 26/2, page 125, Feb 1956 Periodical : Minutes are presented from the conference held at the Inst. of Machine Abstract Construction of the Academy of Sc., USSR (Dec. 7-10, 1955) where the subject of testing friction materials used in brakes, clutches, and couplings of various machines was discussed. Institution: Submitted :



5/883/62/000/000/013/020 E194/E155

Georgiyevskiy, G.A., Lazarev, G.Ye., AUTHORS:

Varlamova, V.A., and Zakharova, I.M.

Methods of studying frictional materials TITLE:

Metody ispytaniya na iznashivaniye; trudy soveshchaniya, SOURCE:

sostoyavshegosya 7-10 dek. 1960. Ed. by .

M.M. Khrushchov. Moscow, Izd-vo AN SSSR, 1962, 119-124

Frictional materials are usually tested on rod-on-disc machines in which cooling conditions are quite different from those experienced in practice, and as temperature is particularly important in assessing high temperature frictional materials it was taken as the main criterion in a test procedure developed by the Institut mashinovedeniya AN SSSR (Institute of Science of Machines, AS USSR). The test pieces are hollow cylinders (28 mm o.d., 20 mm i.d., 15 mm long); by varying the sliding speed (0.125 - 5 m/sec) and load (2 - 40 kg/cm²) in a friction and wear machine type N-47 (I-47), frictional temperatures in the range 50 - 1200 °C can be developed in the specimens. Their housings are specially designed to control heat transfer. Card 1/2

THE REPORT OF THE PROPERTY OF

Methods of studying frictional ... 5/883/62/000/000/013/020 E194/E155

A property known as the frictional thermal stability has been defined to characterise high-temperature brake materials; it includes plots of the coefficient of friction and the wear rate as functions of temperature; typical curves are shown. The development of aircraft disc brakes with enhanced cooling has involved tests on materials with varying amounts of coverage of the rotating surface by the brake blocks; it is shown how the effects of changes in this coverage depend on sliding speed. In tests of fire resistance and seizure, run-in specimens are tested at high sliding speeds until the material catches fire. Solid and gaseous wear products can be trapped for analysis. The microstructure of the frictional surfaces is studied. There are 5 figures and 1 table.

Card 2/2

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	FRASE I BOOK KOTIOTENTIAN SOV/566 Mancharen buncharen vo modlamas metaorologis Antarktiki, Moscow, 1999	ts at the Scientiff, Moscow, 1959) 1	Ed.: 0.0. Erichak; Tech. Ed.: L.M. farth.	FURFOCE: The publication is intended for meteorologists, particularly for the interested in the climatelogy of Antarttics.	CONTRACT: This book contains summaries of thirty-five reports presented at the Selectific Conference on Michaell Pholisms in Antarctics, bad in Securities, bad in Securities, bad in Securities of the grouping of Antarctics; (2) atmospheric circulation; (3) reduction belong, but belong, clinic and special carterial prolisms of the grouping of Antarctics; (2) atmospheric circulation; (1) reduction belong, but belong, clinic and special castures is their thinks, and special castures is their thinks, clinical and special castures in their thinks. The Antarctic and measures be percentitional transmers are no references. Proc International Antarctic Market, (1) subdet of Observation and measures are are are also and measures. The Antarctic Conference of Compression Section 1 and 1	the Littural Regions of Anterction Satisfore, E.T.s. [Canddates of Geographical Sciences, Restoratiy n/D [Satisfore, E.T.s. [Canddates of Geographical Sciences, Restoratiy n/D [Franker Veryon with the Control of Canddates of Special Frankers of Say Accordation in the Literal Rose and in the High-Platesa from of Radean Astartian	Parlachento, M.G. [Enginer: Soyumaryroyat (All-Union Association for Design and Planning of Establishments of the Ministry of the Eary of the USES) Yolune of Charlet for Dumped Into the Day's See	pairs, Y.F. (Candidate of Physics and Nathanatics, Tentral'says serolo- gibberays observatoriya (Gantral Asvological-Osservatory)) Radiasion Balance of Sows Paris of the Albanits and Enlands and Enland Cosses according to Os- servations From the Dissal-Electric Fassel 'Os" in 1959 SALYNY, E.T.E. (Candidate of Geographical Sciences, Restoristy n.D graduations of the Paris and The Balance in the Regions Investigated by the Strict Albanith Republic (Mastern Atlantica)	PARE IT, METEDDS OF OSSERVATIONS AND PERSONS OF THE PERSONS OF THE PERSONS OF THE PERSON OF THE PERS	pagara, F.A. (Garinal Formating instituted into respective in Computing to Constitute the derpotantial of 700 ab Surface, According to Descriptions of Asserting Stations Stations. Englishment Stations.	January Chernizzy, the Sortitys tottimitalluys and the action of the Continues of the Control of	SELVABORY, V.I. (Series) Astributed Communicaty, bis Soviet Continental Assert: Expedition Series of Mesuring the Drifting of Soviet Assert:	parties 1.3. [Unior Schauffit Worker, Ranchmo-Lealadowtell ally fasters 1.3. [Unior Schauffit Worker, Ranchmo-Lealadowtell ally fasters Tryographic Service]] Contour Determination in Anterotion by the Barractic Method	Tripak_Q.G. [Central Foremating Listitute] Operation for Determining Crito.: by Endic Attimise During the And Soriet Antartic Expedition (1997)	Bugayev, V.A. [Central Fore-meting Listitute] Methods for Determining the Surface Contour of Antervition During the jet Sorgat Antervitic Expedition	Purer_A.M. [Institute of Applied Geophysics, AS USSS] Determination of the Absolute Altitudes of the Astarctica Icetap	AWAILABLE: Littmin of Congines (QCSP4,9.835)	F. S.
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CON CERTIFICATION CONTRACTOR CONT

USHAKOV, S.A., aspirant; IAZAREV, G.Ye., mladshiy nauchnyy soturdnik

Thickness of the earth's crust along the meridional profile
Davis Sea - Pionerskaya Station, Inform. biul. Sov. antark. eksp.
no.10:9-12 '59' (MIRA 13:3)

1. Moskovskiy gosudarstvennyy universitet.
(Davis Sea region--Geology, Structural)

USHAKOV, S.A.; mladshiy nauchnyy sotrudnik; LAZAREV, G.Ye., mladshiy nauchnyy sotrudnik

The isostatic equilibrium of Antarctica. Inform.biul.Sov. antark.eksp. no.11:17-21 '59. (HIRA 13:5)

1. Moskovskiy gosudare _nnyy universitet. (Antarctic regions--Isostasy)

3(6) AUTHORS:

Lazarev, G. Ye., Ushakov, S. A.

SOV/20-126-2-20/64

TITLE:

An Attempt at Determining the Thickness of Ice in the Antarctica From Gravimetrical Data (Opyt opredeleniya moshchnosti l'da v Antarktide po gravimetricheskim dannym)

FERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2, pp 299-302 (USSR)

ABSTRACT:

The seismical determination of ice thickness must be supplemented by gravimetrical measurements because of the large distances between the points of seismic probing and because of the probability of considerable errors being caused at some points. These gravimetric methods may supply valuable information with respect to the thickness of the ice. In these measurements it is necessary to separate the influence exercised by the difference in ice thickness from the influences of the lower factors. The ice profile investigated by the authors extends over a distance of 25 km from the shore of the Mirnyy-Rayon into the interior of the mainland. The points distributed on this profile at distances of 1 - 2 km from one another either coincide or are not more than 500 m distant

Card 1/3

from one another. The large difference in density (1.9 g/cm³) between the core layers and the ice is very favorable for the

An Attempt at Determining the Thickness of Ice in the Antarctica From Gravimetrical Data

307/20-126-2-20/64

application of the gravimetrical method. The investigations carried out by the authors lead to the following conclusions: 1) For the determination of the thickness of antarctic ice, gravimetrical investigation must be carried out in conjunction with seismic investigations. In this way, not only exact data concerning ice thickness, but also some information concerning the structure of the crust of earth below the ice may be obtained. 2) When interpreting gravimetrical data it is possible to determine the regional background by converting Buge's anomalies for height. If there is an isostatic compensation of the cover of ice on a considerable area of the eastern Antarctic, the regional background may be represented by the curve of the gravitational effect of the ice above seal level (however with changed sign). 3) Application of the method developed by B. V. Numerov increases the accuracy of ice thickness determination from gravimetric data. The most rational way of calculating thicknesses according to this method is by doing so for such distances between the gravimetric points as are not greater than four times the thickness of the ice. The authors thank Professors V. V. Fedynskiy, V. A. Magnitskiy, and P. A. Shumskiy for their help and advice, as well as Professor S. S. Vyalov,

Card 2/3

An Attempt at Determining the Thickness of Ice in the

SOV/20-126-2-20/64

Antarctica From Gravimetrical Data

C. K. Kondrat'yev, S. S. Lopatin, and S. A. Manilov for placing data concerning glaciology and seismic research at their disposal.

There are 1 figure and 8 Soviet references.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED:

February 14, 1959 by D. I. Shcherbakov, Academician

SUBMITTED:

February 12, 1959

Card 3/3

3 (10) 3.9000

AUTHORS:

Ushakov, S. A., Lazarev, G. Ye.

SOV/20-129-4-19/68

TITLE:

The Isostatic Downwarping of the Earth Crust in the Antarctica

Under the Load of the Icecap

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 4, pp 785 - 788

(USSR)

ABSTRACT:

According to I. D. Zhongolovich (Ref 2) and Tanni the platforms are essentially isostatic in equilibrium. Up to being ited the isostatic anomalies and the anomalies averaged by Fay which are similar to the former with respect to its magnitude (according to S. V. Yevseyev (Ref 1) and H. Jeffreys (Ref 10)) must nearly be equal to zero. The radius of this averaging was assumed, according to S. V. Yevseyev (Ref 1), to be 118 km. The results obtained by the Soviet Antarctic expeditions, which the authors had available, indicate the existence of an isostatic compensation in the region under investigation. This leads to the following problem: It must be found how completely the isostatic compensation in the other investigated regions of the Antarctica are realized. According to G. P. Wollard the thickness of the rocks below the icecap varies systematically from the periphery of the Antarctica towards its center. Such a systematic variation

Card 1/3

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The Isostatic Downwarping of the Earth Crust in the SOV/20-129-4-19/68 Antarctica Under the Load of the Icecap

is, according to the authors opinion, very improbable. The non-agreement between recismic and gravimetric depth is essentially due to the downwarping of the earth crust under the weight of the ice. The existence of isostatic equilibrium in the profile extending from Little America to Byrd may be concluded from the analysis of Fay's anomalies. In the isostatic compensation of the ice load Buge's (Bouget's?) anomalies illustrate the influence exerted by the following factors: 1) The density relief of the layers below the ice. 2) The anomalies densities of the rocks under the ice. 3) The regional gravitational background due to the isostatic downwarping of the earth crust. If the excessiice load is isostatically fully compensated, Buge's anomalies, after consideration of the regional background are nothing but Fay's anomalies. Basing on this assumption the authors calculated the depths of the lower layers in the profile Little America - Byrd. The good agreement between the gravimetric and the seismic depths on the aforementioned profile confirms the assumption that the excess ice load is essentially isostatically compensated. The same also applies to the eastern part of the Antarctica. The existence of an isostatic equilibrium is also

Card 2/3

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The Isostatic Downwarping of the Earth Crust in the SOV/20-129-4-13/68 Antarctica Under the Load of the Icecap

indicated by the fact that the Antarctic shelf is, on the average, 200 m lower than the shelves of other continents. The minimum of Fay's anomalies in the Pacific sector is pointed out. The cause of such anomalies has, as yet, not been found. It is further mentioned that the authors thank v. v. Fedynskiy, v. A. Magnitskiy, and P. A. Shumskiy for discussing this paper, and that they also thank O. K. Kondrat'yev, S. S. Lopatin, and S. A. Manilov for making the data of seismic probing available. There are 2 figures and 14 references, 9 of which are Soviet.

PRESENTED:

May 4, 1959, by D. I. Shcherbakov, Academician

SUBMITTED:

April 29, 1959

Card 3/3

1,2239

S/732/69/019/000/60

AUTHOR:

TITLE:

Special problems in the astronomical determination of coordinates in Lazarev, G. Ye.

the Antarctic.

SOURCE:

Sovetskaya antarkticheskaya ekspeditsiya, 1955- . [Trudy] t. 10: Vtoraya kontinental naya ekspeditsiya, 1956-1958 gg.; glyatsiologiche skiye issledovaniya. P. A. Shumskiy, ed. Leningrad. Izdatel'stvo

"Morskoy transport," 1960, 11-21.

This is a report on operational experience in establishing astronomic. fixes in marine and aerial navigation under Antarctic conditions, which is a part of the glaciological records of the Second Soviet Continental Expedition, 1956-1958, the gradiological records of the decond boylet Continental Expedition, 1730-1730, to Antarctica. The OTC (OTS) theodolite was used as the standard instrument in Antarctica. Under the strong wind prevailing in clear weather in Antarctica, as well as in the Arctic, broken-ocular instruments are most convenient, since the enable the observer to protect his eyes and face from the penetrating freezing wind and to make astronomical observations at any zenith distance. Under extremely intense and variable conditions of prevailing brightness, a revolving magazine-type disk with three colored filters permits rapid change of filter density. The level attached to the vertical circle is most seriously affected by Card 1/2

s/732/60/010/000/002/002

1.1.0 AUTHOR:

Lazarev, G. Ye.

TITLE:

5 ν

A٤ Ca

SOURCE:

Barometric leveling in Antarctica. . [Trudy] t. 10: Sovetskaya antarkticheskaya ekspeditsiya, 1955-Vtoraya kontinentalinaya ekspeditsiya, 1956-1958 gg.; glyatsiologicheskiye issledovaniya. P. A. Shumskiy, ed. Leningrad,

Izdateli stvo "Morskoy transport," 1960, 27-36.

Barometric leveling has been widely applied in Antarctica. The parometric leveling has been widely applied in Antarctica. The prevalence of strong winds requires a correction for the slope of the constant prevalence surfaces. The effect of the horizontal temperature gradient on observations near a cloping ground surface which at first sight appears to be a constant tions near a cloping ground surface which at first sight appears to be a constant. tions near a sloping ground surface, which at first sight appears to be a serious difficulty, can be eliminated by calculation because of the stability of the prevailing temperature inversions. Pressure variations resulting from synoptic dynamic remperature inversions. Pressure variations resulting from synoptic dynamic phenomena are greatest in the coastal area (Mirnyy, Oazis), with winter extremes phenomena are greatest in the coastal area (Mirnyy, Oazis), with winter extremes of 668 - 626 mb and summer extremes of 655 - 632 mb. Mean monthly temperatures of 668-626 mb and summer extremes of 655-656 mo, Mean monthly tempera at inland stations are below 0°C the year round, with little summer-to-winter at illiand Stations are below of the year round, with little summer-to-winter difference. Temperatures decrease with distance from the coast. Temperature

Card 1/2

s/169/61/000/010/019/055 D228/D304

AUTHORS:

Lagarev, G. Ye., and Shumskiy, P. A.

TITLE:

Preliminary results of gravimetric determinations of the

ice-sheet thickness

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 10, 1961, 55, abstract 107364 (V sb. Sov. antarkt. ekspeditsiya, 10,

L., Morsk transport, 1960, 96-100)

The data and procedure are given for determining the ice thickness by a gravimetric method via the comparison of gravity anomalies with the data on the depth of the ice floor obtained by means of seismic surveying and drilling. The plan position of the gravimetric stations and the radial profile of the ice sheet in the Mirnyy-Vostok area from the data of 195? are cited. It is noted that the sub-ice surface of the central part of Eastern Antarctica has a bowl shape, the edge of the ice sheet extruding seawards for 200 km. The existence of a latitudinal range under the ice is postulated in an area of 220 - 300 km. The greatest

Gard 1/2

Preliminary results of...

S/169/61/000/010/019/053
D228/D304

thickness of the ice sheet was noted 40 km to the north of the Vostok station and was equal to approximately 4700 m, the floor of the ice in ci errors in the gravimetric method for the original data in question was wade with certain a priori assumptions. The errors do not exceed 100 m.

The error do not exceed 100 m.

The error do not exceed 100 m.

Card 2/2

8/035/61/000/006/032/04年 A001/A101

AUTHOR:

Lazarev, G.Ye.

TITLE:

Geodetic works in the region of casis Banger-Hills

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 6, 1961, 2, abstract 603 (V st. "Sov. antarkt. ekspeditsiya. 10", Leningrad, "Morsk. transport", 1960, 280 - 284)

TEXT: To determine the velocity and direction of motion of the ice cover in the region of Banger-Hills (Antarctic), a microtriangulation network was constructed and observations were carried out at its points in November 1957 and January 1958. An O[C(OIS) optical theodolite, a 20-m stock tape, a pocket chronometer, and giaciplogical beacons with marks were used in observations. The relative error of the initial side (its length was \sim 850 m) amounted to 1:4,600. Horizontal angles were measured by six circular observations with root-mean-square errors \pm 3.42 (in 1957) and \pm 2.41 (in 1958); zenith distances were determined with ru-mu-su error equal to ± 2"4. Refraction coefficient, calculated from two-side differences in elevation, proved to to 0.35. The error in position of the remotest point was \pm 0.69 m. The accuracy in determining altitudes of the points

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Geodetic works in the region of casis Banger-Hills

\$/035/61/000/006/032/044 A001/A101

was ± 0.02 m. The results of repeated measurements showed a relatively slight displacement of ice masses both in herizontal and vertical directions. The magnitudes of ice displacements turned out to be close to limiting measurement errors. To improve the organization of works, it is recommended to sink beacons to a depth of at least 1 m, to paint the lower part of beacons and tripod legs into white color, and repeat observations not oftener than in 3-5 months. It is noted that the OTS theodolite is well fitted for observations under Antarctic conditions.

I. Konopal'tsev

[Abstracter's note: Complete translation]

Card 2/2

88844 S/026/60/000/012/002/009 A166/A027

3.9000 (1641,1109,1327)

Ushakov, S.A. Lazarev, G. Ye.;

TITLE:

AUTHOR:

The Earth Crust of the Antarctic

PERIODICAL: Priroda, 1960, No. 12, pp. 17 - 22

The article gives an account of the earth crust of the Antarctic from data recorded by Soviet geophysicists in 1955 - 1958. Studies of the ice cap were made in the Eastern Antarctic from the Mirnyy observatory to the inland stations at Vostok and the Pole of Inaccessibility and also at intervals along TEXT: the coastal area of the Eastern Antarctic from longitude 55 - 165°E. Seismic, gravimetric and magnetic observations have been made and an aerial survey carried out along a U-shaped route from Mirnyy-Pionerskaya-Farr Bay and also in the coastal area of Wilhelm II Land and Queen Mary's Land. Seismic studies of the thickness of the ice cap were also made in these areas and gravimetric and magnetic research performed in other coastal areas of the Eastern Antarctic. It was found that the mean thickness of the ice cap in the Eastern Antarctic varies from a minimum of 2,000 m to a maximum of 4,000 m. The figure shows the subglacial relief (top) and the thickness of the earth crust between Mirnyy and Komsomol'skaya. A subglacial upheaval detected in the central part of the West-

Card 1/5

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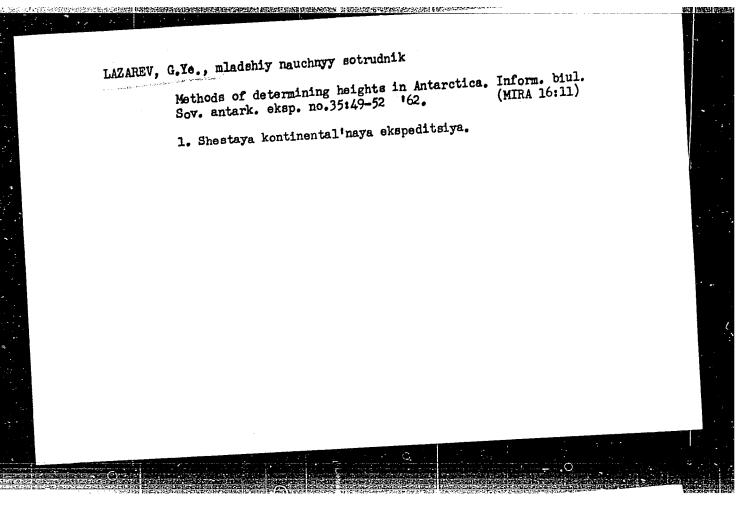
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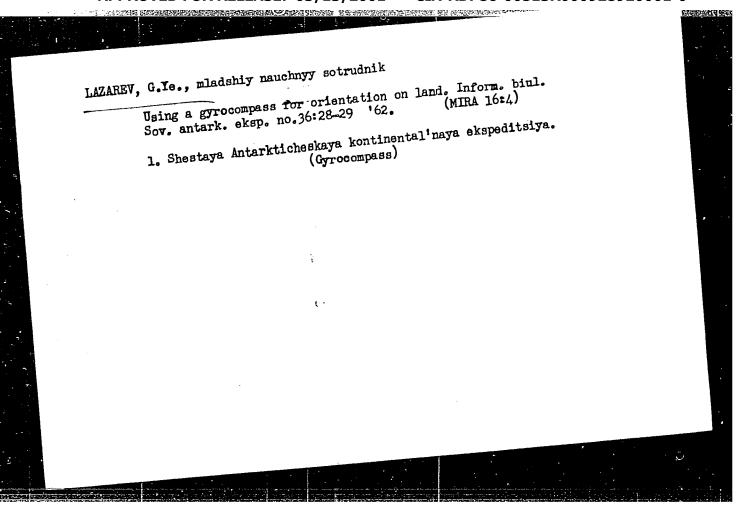
The Earth Crust of the Antarctic

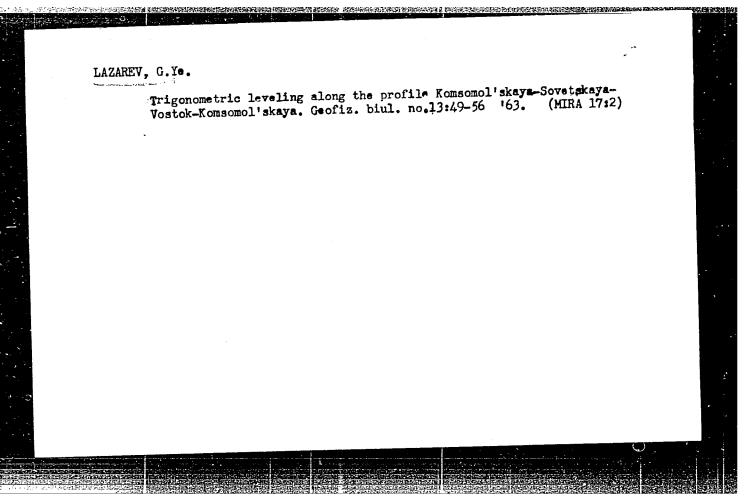
S/026/60/000/012/002/009 A166/A027

ern Glacier is of the fault-block type and is probably the northern end of the block mountains situated to the east of Olaf-Pruds Bay. The calm gravitational and magnetic fields detected between Mirnyy and a point 200 km towards Pionerskaya indicate that beneath this sector lies a plain with slight rises and depressions. The proterozoic foundation is overlaid with low-magnetic rocks, similar to those which compose the bed of the Davis Sea. South of the 200 km point an upheaval of the block type has been detected which, together with the Banger and Obruchev Oases and the Stratkon and Amundsen Mountains, forms a single system of upheavals stretching towards the north east. According to Soviet observations, the eastern area comprises two separate structures: King George V Land is part of a platform, while Oats' Land is probably a Caledonian fold structure with component rocks no older than 300,000,000 - 400,000,000 years. According to the values of Bouget's anomaly, determined along the meridian from the Davis Sea to Komsomol'skaya, this strip may be divided into 3 sections: 1) from the Davis Sea to 100 - 200 km from the coast is a section of transition from a typically oceanic crust to a continental crust of the continental slope 2) the maritime 100-km strip in the Davis Sea, and the land up to 50 km inland from Mirnyy towards Pionerskaya is a shelf zone; tween the 50-km and 1,000-km points from Mirnyy, a little to the south of Kom-3) the section be-

Card 2/5







LAZAREV, G.Ye., mladshiy nauchnyy sotrudnik

Preliminary results of the gravigeodetic expedition along the route
Komsomol'skaya-Sovetskaya-Vostok. Inform.biul. Sov.antark.eksp.no.43:
41-43 '63. (MIRA 17:1)

1. Institut fiziki Zemli AN SSSR im. 0.Yu.Shmidta.

LAZAREV, G.Ye.; USHAKOV, S.A.

Gravity field and subglacial relief of the central part of eastern Antarctica. Dokl. AN SSSR 152 no.2:400-403 S '63. (MIRA 16:11)

1. Institut fiziki Zemli im. O.Yu. Shmidta AN SSSR i Moskovskiy gosudaratvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom D.I. Shcherbakovym.

LAZARDV, 6.Ye.; bodesnow, t.A., keep goologe-sine mologicheckikh nauk

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Egot Anticoffee, Informatium, Sec. and mi.ohap. no.49129-32 -164.

(MIRA 18:5)

1. Morket life goneth extrement networshipt.

Accuracy of determining height by terrestrial barometric leveling in Antarctica. Inform biul. Sov. antark. eksp. no.53:44-48 '65. (MIRA 18:12)

1. Nachal'nik otdela inzhenernykh izyskaniy Gosudarstvennogo proyektno-konstruktorskogo i nauchno-issledovatel'skogo instituta morskogo transporta Ministerstva morskogo flota SSSR (for Dubovskoy). 2. Shestaya sovetskaya antarkticheskaya ekspeditsiya (for Iazarev).

ACC NR: AT7013727

SOURCE CODE: UR/3174/65/000/053/0044/0048

AUTHOR: Dubovskoy, B. V. (Section head); Lazarev, G. Ye. (Candidate of

ORG: [DUBOVSKOY] Engineering Research Section, State Project Construction and Scientific Research Institute of Sea Transportation (Otdel inzhenernykh izyskaniy, Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel skiy institut
morskogo transporta); /LAZAREV/ State Project Construction and Scientific Research Institute of Sea Transportation (Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel skiy institut morskogo transporta); Sixth Soviet Antarctic Expedition

TITLE: Accuracy of determination of elevations by surface barometric leveling in Antarctica

SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955-. Informatsionnyy

TOPIC TAGS: ground survey, triangulation, barometer, barometric leveling SUB CODE: 08

ABSTRACT: In the course of trigonometric leveling along the traverse Komsomol'skaya-Sovetskaya-Vostok in November 1961-January 1962 the accuracy of determining elevations by surface barometric leveling at stations was

APPROVED FOR RELEASE: 03/13/2001

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ACC NR: AT7013727

determined on the basis of readings of barometric pressure and air temperature. Three aneroids with temperature compensation were used. Scale corrections were introduced. At each station pressure and temperature were observed twice: immediately upon arrival and 2-3 hours later. In this area it was found that there was no stable slope of the isobaric surface. Under such conditions barometric leveling was possible by the method of scheduled time readings at even a single meteorological station in a radius up to 500 km with a mean square error in determining elevations of not more than +12 m. When determining elevations by the barometric method in a radius up to 100 km from the initial station the elevations can be obtained with a mean square error of about +5 m. When barometric leveling is done with ancroid barometers their readings should not be taken immediately after arrival at a station, by 1-2 hours later. The accuracy of determination of elevations by barometric leveling can be increased by synchronization of observations at the initial station and at the determined stations, an increase of the number of initial stations and the use of more precise instruments than aneroids for determining barometric pressure. Orig. art. has: 1 figure and 2 tables.

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38687-66 EWT(1) ACC NR AT6016944 (A)SOURCE CODE: UR/2639/65/000/000/0053/0060 Lazarev, G. Ye.; Ushakov, S. A.; Bugayev, Yu. G. (Professor) AUTHOR: ORG: none TITLE: Methods and basic results of geodetic and gravimetric investigations of the central sector of eastern Antarctica SOURCE: AN SSSR. Mezhduvedomstvennaya komissiya po izucheniyu Antarktiki. Antarktika (The Antarctic); doklady komissii, 1964. Moscow, Izd-vo Nauka, 1965, 53-60 TOPIC TAGS: gravimetric survey, geodetic survey, sea ice ABSTRACT: Measurements (begun in 1959) of the altitudes of the ice surface and the force of gravity in Antarctica are described. Absolute altitudes were calculated from the mean sea level of the Davis Sea; the Vodomernyy bench mark, served as the basic land station. In the gravimetric survey, differences in the force of gravity were measured using several gravimeters in order to minimize observational errors. The errors along the Mirnyy-Komsomols'kaya, Komsomol'skaya-Sovetskaya-Pole of Inaccessibility, Vostok-Polyus, routes do not exceed *2, *1, *2, *4 mgal, respectively. The errors in the determination of the force of gravity at Mirnyy, Pionerskaya, Komsomol'skaya, Vostok, and Sovetskaya do not exceed #2,5 mgal. The geodetic observations show that 1) daytime is the best time for geodetic surveys because refraction is at Card 1/2

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presence of seve mgal. Analysis line to 68° S, r	the errors in the rese leveling) are of eral ancmalies of posof the data revealed relatively small high	a random nature. itive and negati I the following r	The grave types, elief zone	vimetric data ranging from es: 1) from	show the 30 to 100 the coast	,
87°-100°E, where tude variations	the relief of hard of +500 m to -150 m.	rocks is almost	epression:	s; 3) 71°-75°	S and	
SUB CODE: 08/	SUBM DATE: none/	ORIG REF:	006/	OTH REF:	001	
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CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application. Chemical Processing of Solid Fossil LAZAREV, : Ref Zhur - Khimiya, No 10, 1959, 36306 Fuels. Abs Jour Lazarev, I., Havel, O. An Investigation of Iron Coke Production. huthor Inst Paliva, 1953, 38, No. 3, 265-269. Title There were carried out laboratory, pilot plant and indus-Orig Pub trial experiments on the production of iron cake (IC) from schist, into the composition of which enter coal of two formations and an ore. At the industrial experi-Abstract ments, 1607 tons of IC were processed, schist included 11.6% of ore; its humidity, on the average, was 12.65. It was established that the coking process took place without complications; the coke yield increased 13%, including 3% of untallurgical coke; the yield of chemical 4-118. Card 1/2

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application. Chemical Processing of Solid Fossil

Abs Jour : Ref Zhur - Khiniya, Ho 10,1959, 36306

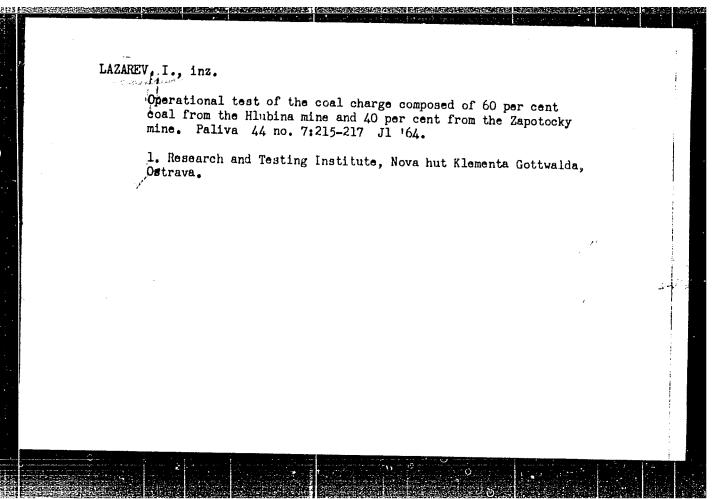
products decreased insignificantly. It was deduced that there existed a feasibility of an industrial introduction of this product and about the necessity of checking the effect the performance of blast furnaces has on the obtained IC.

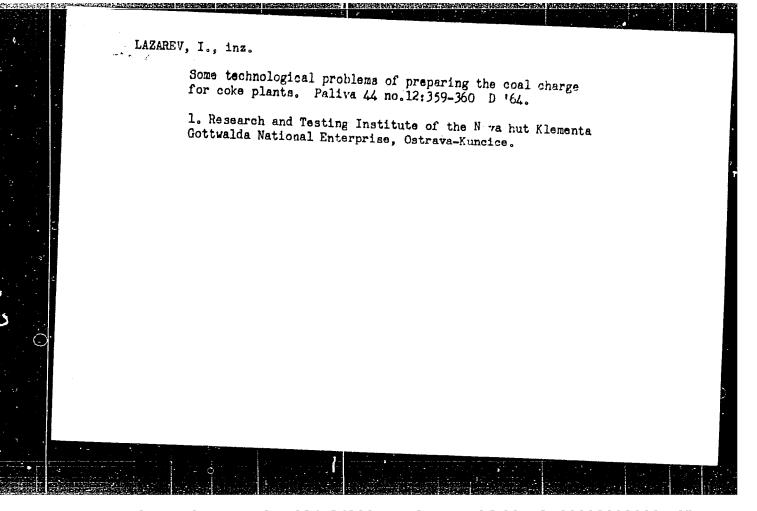
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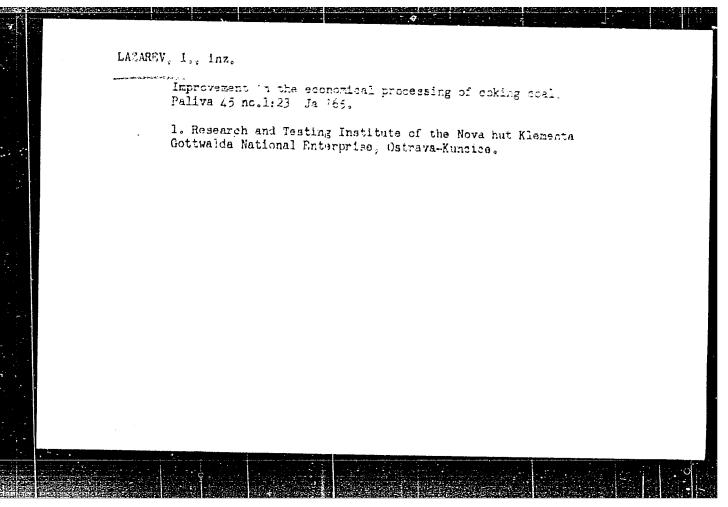
LAZAREV, I., inz.; PRUDEK, L., inz.

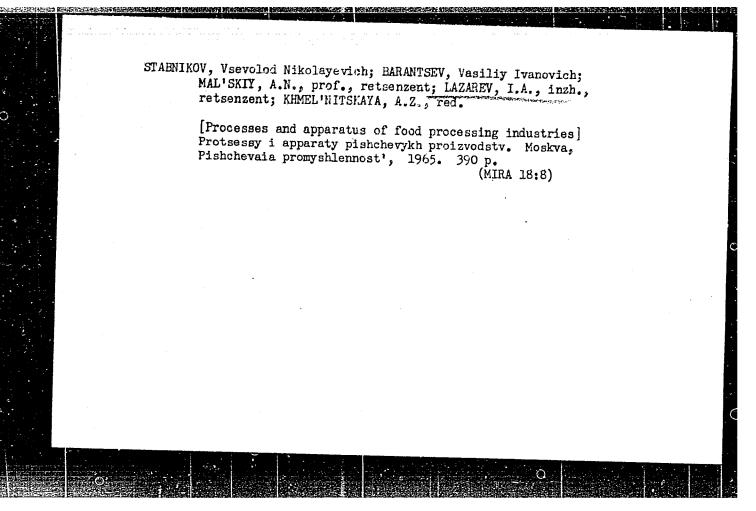
Proposed coal mixture for the caking plant of the Vychodoslovenske zelezarny. Paliva 43 no.5:143-147 My 163.

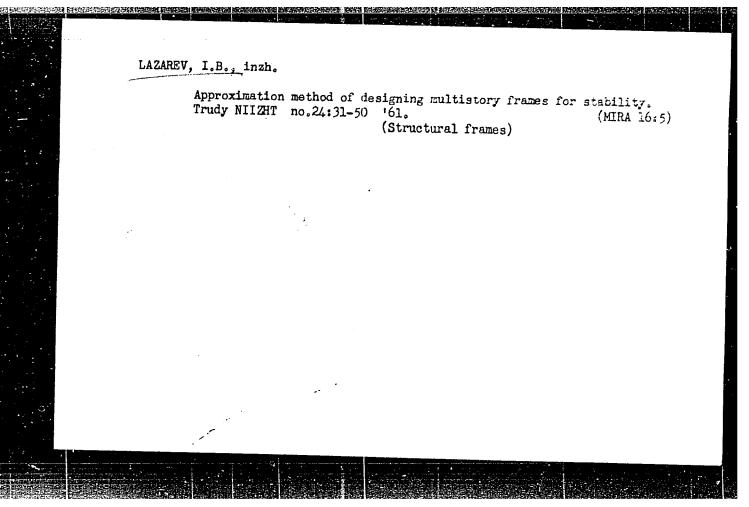
1. Vyzkumny a zkusebni ustav, Nova hut Klementa Gottwalda, Koksartnsky vyzkum.

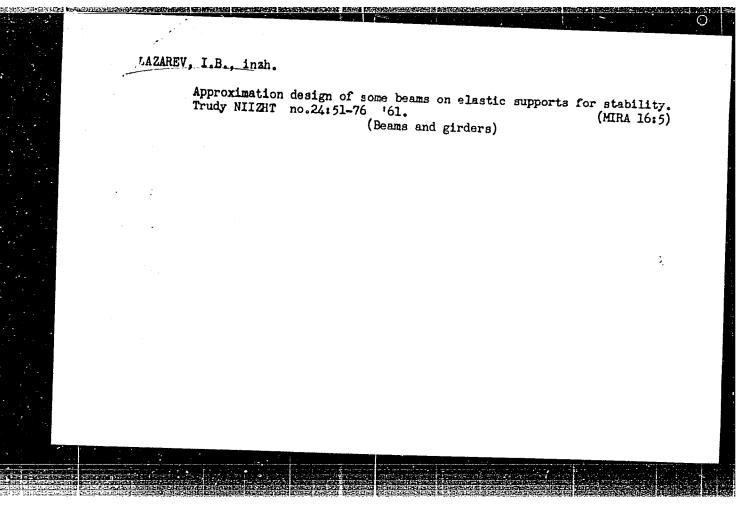








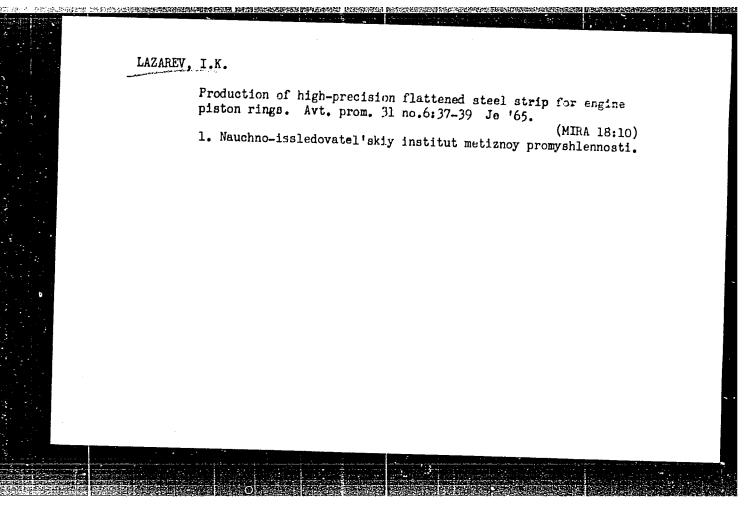


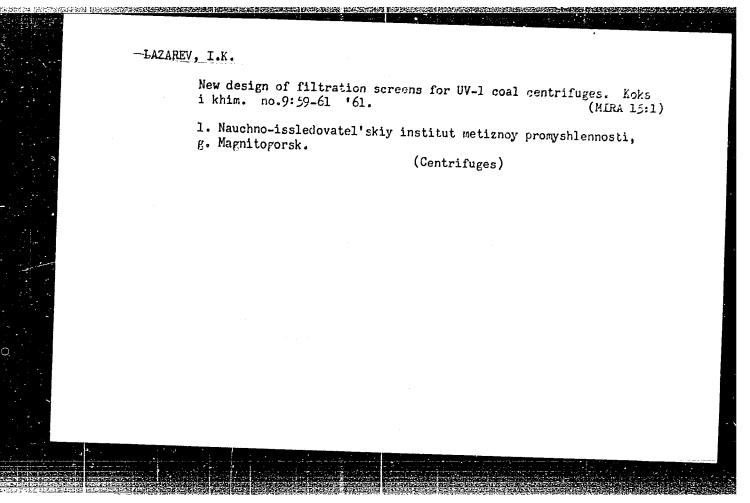


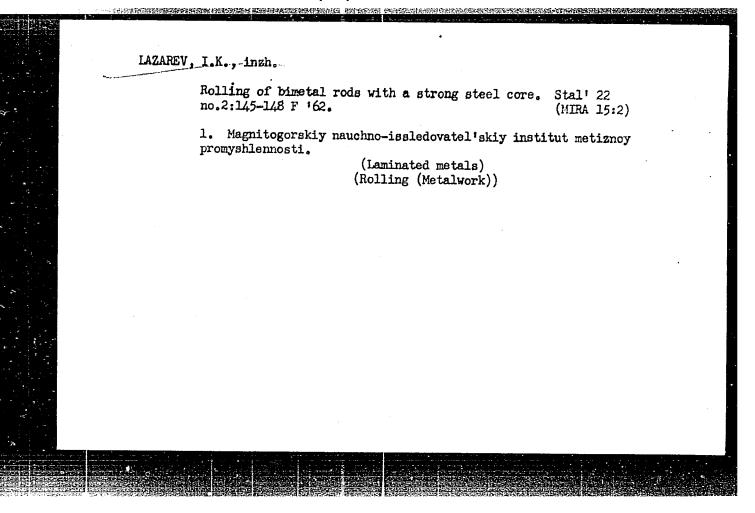
LAZAREV, I.G., inzh.

Electric-power supply for the building site. Energ.stroi.
no.5:63-71 '58. (MIRA 12:5)

1. Glavnyy energetik Kuybyshevskoy gidroelektrostantsii.
(Volga Hydroelactric Power Station-Electric power)







LAZDREY, I.L.

AUTHOR:

Lazarev, I.L.

TITLE:

Automatic Typesetting (Avtomaticheskiy nabor)

PERIODICAL:

Nauka i Zhizn', 1957, # 8, p 50 (USSR)

ABSTRACT:

The article describes the high-speed typesetting machine "Linotype-Mixer", model "Quick" which is manufactured in West Germany and which was shown on the Leipzig Fair in fall 1957. It is stated that the USSR has designed a similar

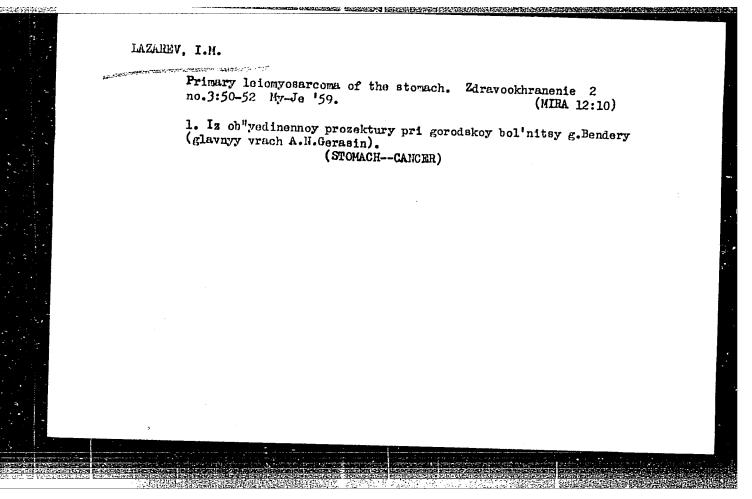
25-8-28/42

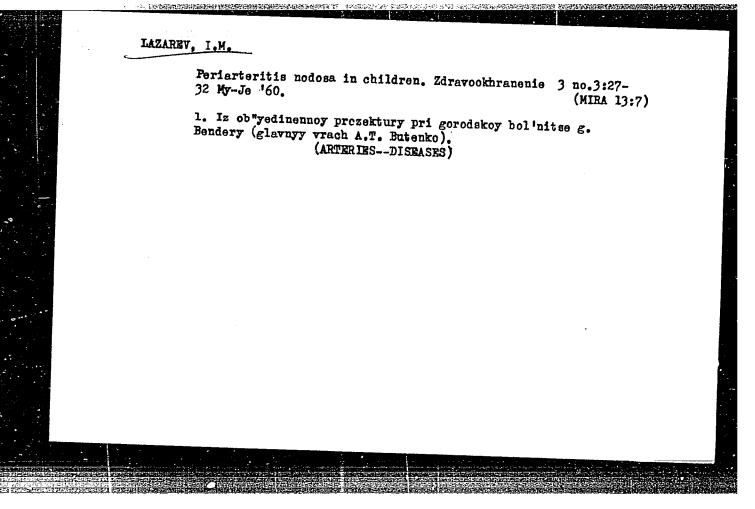
There is one photograph.

AVAILABLE:

Library of Congress

Card 1/1





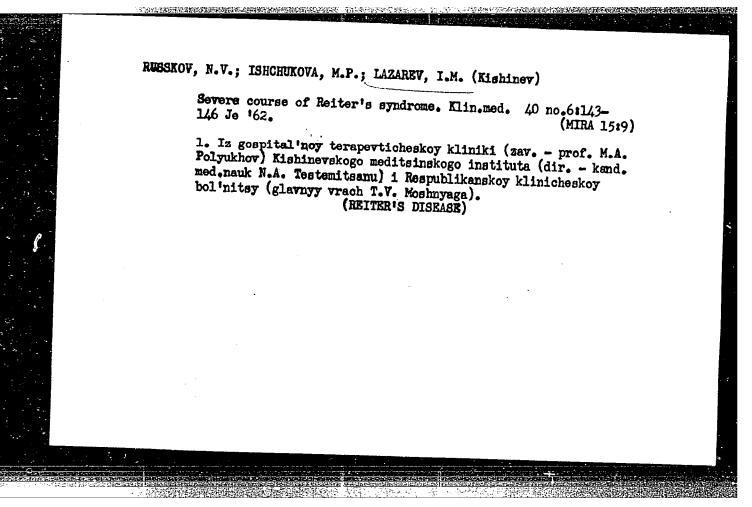
KATSYF, A.M., kand. med. nauk; LAZAREV, I.M.

CHICAGO CONTRACTOR CON

Diagnostic errors detected through pathologicoanatomical autopsy (based on materials of the Urological Clinic of the Kishinev State Medical Institute for five years). Trudy Kish. gos. med. inst. 24:187-195 '64 (MIRA 18:1)

Clinical aspects of retroperitoneal phlegmons. Ibid. \$196-201.

1. Urologicheskara klinika Kishinevskogo gosudarstvennogo meditsinskogo instituta i patologoanatomicheskoye otdeleniye Moldavskoy Respublikanskoy klinicheskoy bol*nitsy.



Use of lignite for setallurgical coke production. Paliva 42 no.7:193-196 Jl '62.

1. Vyzkumny a zkusebni ustav, Nova Hut Klementa Gottwalda, koksarensky vyzkum.

LAZAREV, I., inz.; PRUDEK, L., inz.

Use of lignite for making metallurgic coke. Paliva 42 no.10:301-302 0 '62.

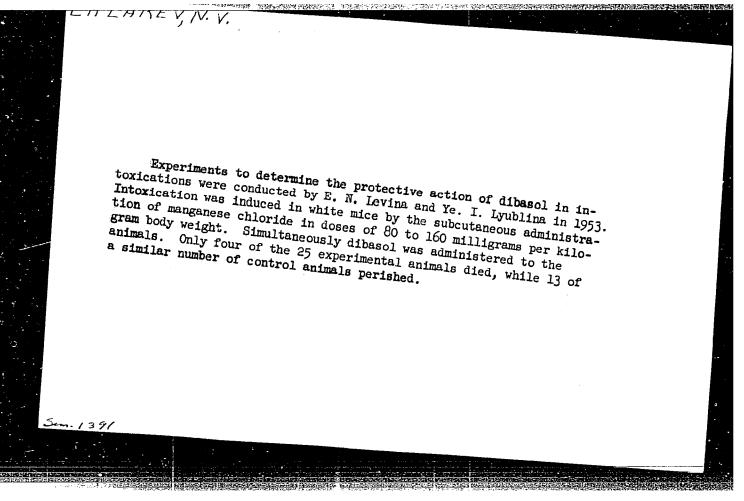
1. Vyzkumny a zkusebni ustav, Nova hut Klementa Gottwalda, koksarensky vyzkum.

LALAREY I. U.

"On the Possibility of Increasing the Resistance of the Organism to the Action of Harmful Environmental Factors" by K. G. Vasil'yev, I. S. Karev, Honored Worker of Science RSFSR Prof. N. V. Lazarev, Senior Scientific Associate Ye. I. Lyublina, and V. G. Ovcharov (Leningrad); Chair of Pharmacology, Pharmacy, and Pharmocognosy; Military-Medical Order of Lenin Academy imeni S. M. Kirov, and the Toxicological Laboratory of the Leningrad Institute of Labor Hygiene and Occupational Diseases; Gigiyena Truda i Professional'nyye Zabolevaniya, Vol 1, No 2, Mar/Apr 57, pp 19-24.

Reports results of experiments carried out to determine the effectiveness of dibasol and an extract of ginseng root when used to increase the resistance of the organism to the harmful environmental effects.

V. G. Ovcharov used the drugs to increase the tolerance of white mice to high altitudes. I. S. Karev applied dibasol and extract of ginseng root in white mice in order to increase their resistance to the harmful effects of rarified atmosphere. K. G. Vasil'yev and Ye. I. Lyublina conducted experiments which sought the prevention of undesirable effects caused by rapid changes in the position of the organism. In all cases the application of dibasol and extract of ginseng root proved to be highly beneficial.



LALAREV, I.S.

S. M. Vishnyakov induced intoxication in cats by the intramuscular administration of sodium cyanide in doses of 3 milligrams per kilogram of body weight. All of the ten animals of the control group perished 8 or 9 minutes after the poison was administered. Of the ten animals which were administered dibasol prior to the administration of sodium cyanide, four remained alive. Similar results were obtained by N. K. Fruyentov in 1956 and I. I. Brekhman in 1957 in experiments on guinea pigs and rabbits which were administered extract of ginseng root after being poisoned with tetraethyl lead and tricresyl phosphate. Other preparations, such as benzimidazole derivatives, vitamin B12, and anticholinesterase drugs have been found to possess the capacity to raise the resistance of the organism to the effects of unfavorable conditions. As yet, however, dibasol is the most effective drug. It is now being widely applied in medical practice, produces no side effects, is inexpensive, and is also effective when administered internally.

On the basis of the data which were obtained in the experiments, the authors say in conclusion that it may be assumed that in the near future it will be possible pharmacologically to raise the resistance of the organism to adverse conditions, such as may be encountered in ocean storms, long distance flights, difficult expeditions, submarine work at considerable depths, and other difficult tasks. (U)

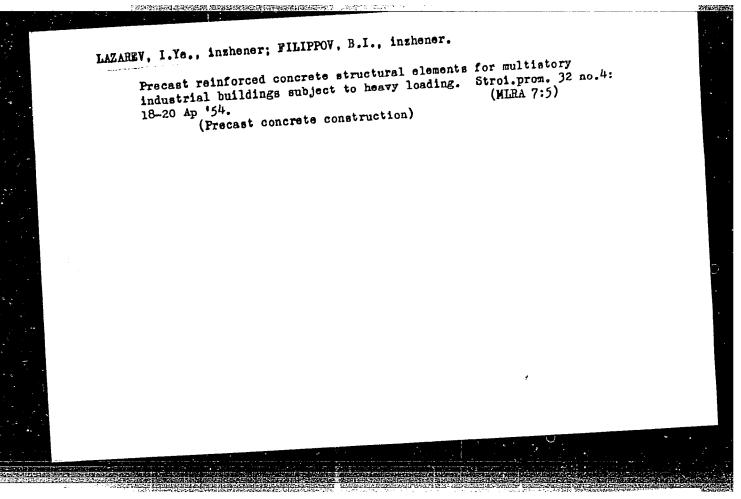
Sam. 1341

LAZAREV, I.S.; SEDLETSKIY, V.I.

Correlation of proved sulfur reserves based on prespecting and exploitation data. Razved. i okh. nedr 27 no.6:9-13 Je '61.

1. Gaurdakskiy sernyy kombinat (for Lazarev). 2. Gaurdakskaya geologorazvedochnaya ekspeditsiya (for Sedletskiy).

(Sulfur)



LAZAREV, I. Z.

USSR/Physics - Electromagnetic Field

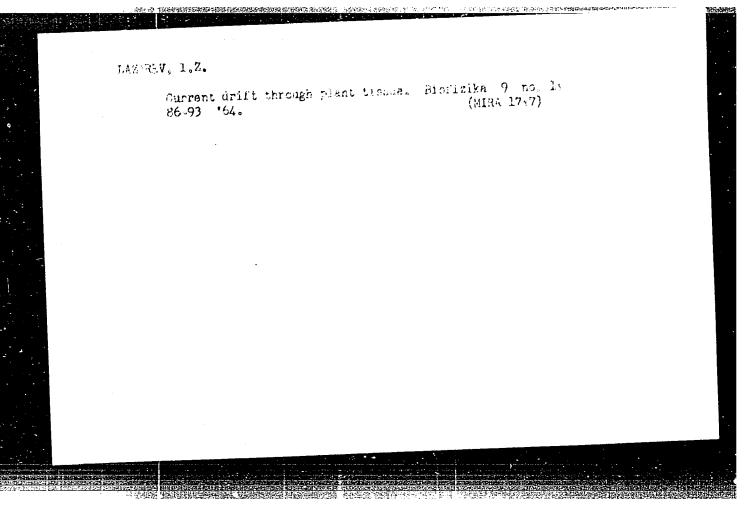
Nov/Dec 50

"Additional Multiplets in Nonhomogeneous Electric Field," V. S. Miliyanchuk, L. K. Klimovskoya, I. Z. Lazarev, Lvov State U

"Iz Ak Nauk SSSR, Ser Fiz" Vol XIV, No 6, pp 716-720

Attempt to show possibility of additional multiplets in nonhomogeneous field which are similar to additional multiplets observed in homogeneous magnetic field. Authors thank A. I. Andriyevskiy for his aid and permission to use facilities of the Phys Dept, Lyov Polytech Inst.

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000928920001-0"